ACTIVITY 54 NOTES

**Potential Energy =** stored energy

* Chemical Energy
* Food
* Gasoline
* Nuclear Energy
* Energy in the nucleus of an atom released by fusion or fission
* Elastic Energy
* Energy stored in a rubber band or spring
* Gravitational Energy
* Tree about to fall
* Depends on MASS, HEIGHT, & acceleration of GRAVITY
* Higher = greater gravitational potential energy
* Greater mass = greater gravitational potential energy

**Kinetic Energy =** energy when object is in motion

* Dependent on the MASS and VELOCITY of an object
* Faster object moving = greater kinetic energy
* Greater mass = greater kinetic energy

**Energy Transfer and Transformation**

our only visible evidence of energy.

Transfer = transfer of energy from one object to another

Ex: transfer of kinetic energy of a moving hammer to a nail.

Transformation = change of energy

Ex: change from potential energy to kinetic energy

**ENERGY CAN ONLY BE OBSERVED DURING TRANSFER OR TRANSFORMATION.**